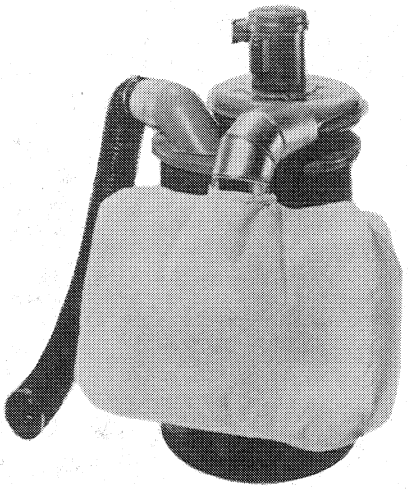
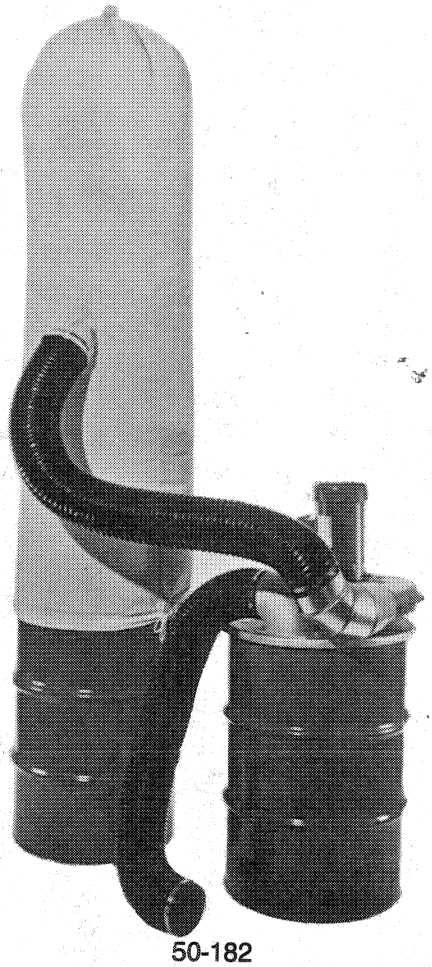
# DUST COLLECTORS

INSTRUCTION MANUAL

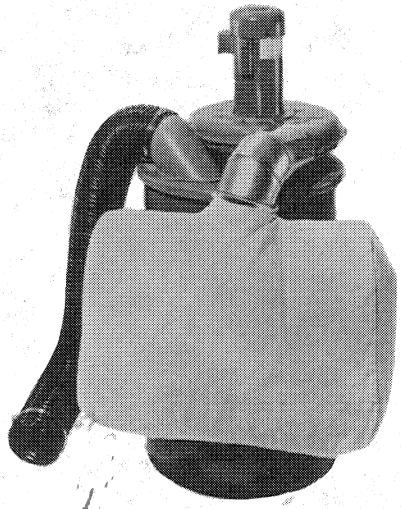


50-180



50-182

NOTE: 55-gallon drums not included



50-181

| Catalog Number | Motor | Motor Voltage | Hertz and Motor RPM | Maximum CFM | Maximum Static Pressure (In. Water) | Maximum Hose Velocity FPM | Bag Area in Sq. Ft. | dBA @5 Ft. | Hose Size | Drum Size |
|---|---|---|---|---|---|---|---|---|---|---|
| **50-180** | 1 HP 1 Ph. | 115/230 | 60-3450 | 700 | 4½″ | 5131 | 19.0 | 83 | 5″ x 60″ | 55 Gal. |
| **50-181** | 2 HP 1 Ph. | 230 | 60-3450 | 1100 | 8½″ | 5600 | 19.0 | 85 | 6″ x 60″ | 55 Gal. |
| **50-182** | 3 HP 3 Ph. | 230/460 | 60-3450 | 1300 | 10″ | 6619 | 50.0 | 84 | 6″ x 60″ | 55 Gal. |

DATED 11-28-94

PART NO. 410-06-651-0001

© Delta International Machinery Corp. 1994

DELTA

**READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR SERVICE YOUR DUST COLLECTOR! RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.**

# SAFETY RULES

1. Follow all local electrical and safety codes, as well as the National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA). All electrical connections and wiring should be performed by qualified personnel only.

2. National Fire Protection Association (NFPA) standards require specific duct design and dust collector configuration when collecting potentially reactive metal dusts, such as aluminum and magnesium. Consult current NFPA standards before setting up a dust collector and/or duct design for these two materials.

3. Use only 3-wire extension cords which have 3 prong grounding type plugs and are of adequate size for longer runs.

4. Replace or repair damaged or worn cord immediately.

5. Protect the power cable and never allow the cable to come in contact with sharp objects.

6. Do not kink power cable and never allow the cable to come in contact with oil, grease, hot surfaces or chemicals.

7. Make certain that the power source conforms to the requirements of your equipment.

**8. KEEP AWAY FROM UNIT WHEN IT IS OPERATING.**
a. there is a high speed blower wheel inside the blower housing that can amputate fingers, grab loose clothes or neck ties.
b. there is also a high speed cooling fan wheel on the top of the motor that should be avoided for the same reasons mentioned in item (a).

9. This unit is heavier than the container it sits on and can be turned over if bumped or not placed on a clean, level area.

10. Do not attempt to clean or service without disconnecting from power source.

# INTRODUCTION

These dust collectors are designed to help maintain clean, safe conditions around dust creating machines in workshops and factories. The flexible hose included with each unit can be hooked directly into the dust creating machine.

Dust collectors work by moving larger volumes of air at lower suction pressures than vacuum cleaners. These units are not designed to be used as high-suction vacuum cleaners.

Components that must be assembled before operation are: sheet metal cylinder, suction hose, two adjustable clamps, sealing gasket, deflector elbow, discharge guard bag, elbow and the dust bag. See assembly instructions for proper installation.

**CAUTION: The blower housing contains a high speed radial blade that can amputate fingers, grab loose clothing and neck ties, or propel dust at high velocities. DO NOT OPERATE WITHOUT THE DISCHARGE GUARD BAG, ELBOW AND DUST BAG IN POSITION.**

Do not attempt to clean, remove dust bag, service unit or move a dust collector while in operation. Disconnect from power source first.

# UNPACKING

Carton must be in upright position before opening. Inspect for shipping damage and advise carrier immediately if damaged. Check parts list for missing or damaged parts.

# ASSEMBLY

1. Assembly includes the installation of the sheet metal cylinder, inlet elbows, sealing gasket, discharge gard, bag elbow and dust bag.

2. To install the sheet metal cylinder, inlet elbows and sealing gasket, place the unit upside down on a cardboard covered flat area.

3. The inlet elbow (A) Fig. 2, is to be attached to the bottom of the lid (B). Remove the nuts and washers from the two studs extending out from the bottom of elbow (C). Position inlet elbow (A), as shown, on the two studs and fasten in place using the two washers and nuts.

4. Assemble the sheet metal cylinder (D) Fig. 2, to the bottom of the lid (B) using the three 1/4-20 screws which are installed into nut inserts on bottom of lid.

5. Remove the paper protection from the adhesive side of the sealing gasket (E) Fig. 2, and install the gasket (E) to the underside of the lid next to the rim. The unit will be more effective if there are no air leaks between the lid and the drum.

**FOR MODELS 50-180 AND 50-181 ONLY**

6. After placing the unit right side up on the drum, assemble discharge elbow (F) Fig. 2, to the discharge end of the blower. Slip the 6-inch diameter o-ring (G) against the retaining ring on the open end of discharge elbow (F).

7. Clamp the open end of dust bag (H) Fig. 2, to elbow sleeve (J), using clamp (K) supplied. **NOTE:** Keep the edge of dust bag fabric 1/4-inch below flange of sleeve (J) to ensure correct locking action of the snap-latches, one of which is shown at (V). With the snap-latches (V) in the raised position, slide the elbow sleeve (J) with the bag attached, over the end of elbow (F) using a slight twisting motion. Snap the latches (V) downward to fasten the bag (H) to the elbow. **NOTE:** Make certain the bag fabric does not interfere with the locking action of the snap-latches.

8. On model 50-180 only, attach inlet hose reducer (M) Fig. 2, to inlet elbow (C) and clamp the suction hose (L) to the hose reducer using adjustable clamp (N) supplied.

On model 50-181, no reducer is used; the suction hose is attached directly to the inlet elbow.

**FOR MODEL 50-182 ONLY**

9. After placing the unit right side up on the drum, attach the discharge hose (M) Fig. 3, directly to the blower using clamp (N).

10. Attach the other end of discharge hose (M) Fig. 3, to the dust bag (O) using the two clamps (P) and hose sleeve (R).

11. Attach inlet hose (S) Fig. 4, to inlet elbow (T) using adjustable clamp (U) supplied.

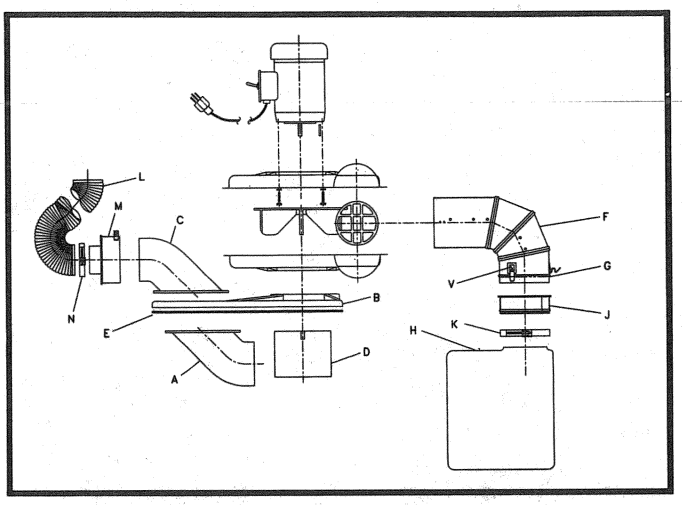



Fig. 2

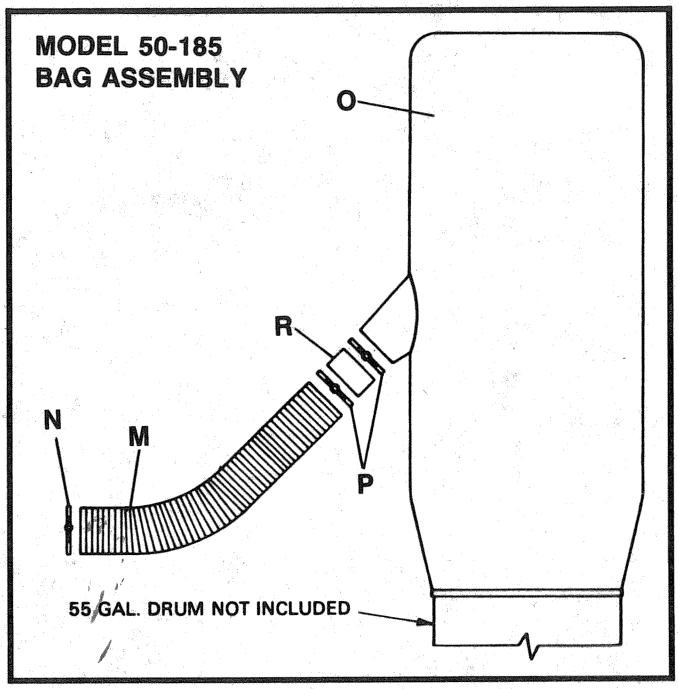



Fig. 3

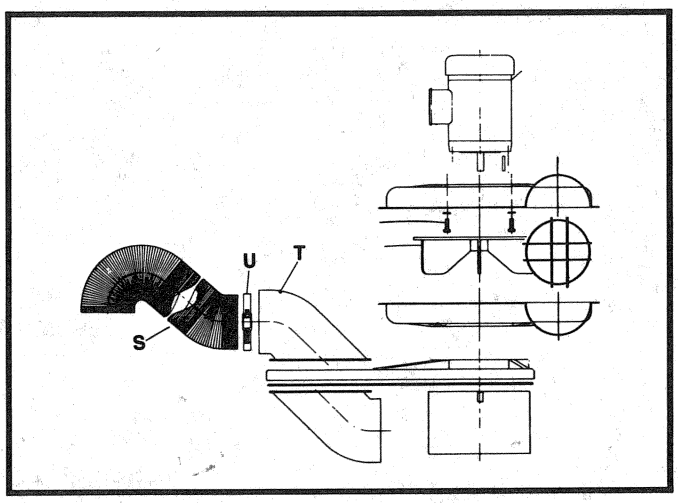



Fig. 4

# CONNECTING DUST COLLECTOR TO POWER SOURCE

Before connecting your dust collector to an electrical power system, be sure the motor rating agrees with the electrical system it is to be connected to.

## SINGLE PHASE OPERATION

If the motor on your dust collector is wired for 115 Volt, single phase, the power cord is equipped with a plug that has two flat, parallel current-carrying prongs, and one longer round or "U" shaped ground prong which requires a mating 3-conductor grounded type receptacle, as shown in Fig. 5.

If the motor on your dust collector is wired for 230 Volt, single phase, the power cord is equipped with a plug that has two flat, current-carrying prongs in tandem, and one round or "U" shaped longer ground prong. This is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. 6.

When the three-prong plug on your dust collector is plugged into a grounded 3-conductor receptacle, the long ground prong on the plug contacts first so the machine is properly grounded before electricity reaches it.

**CAUTION: IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A CERTIFIED ELECTRICIAN CHECK THE RECEPTACLE.**

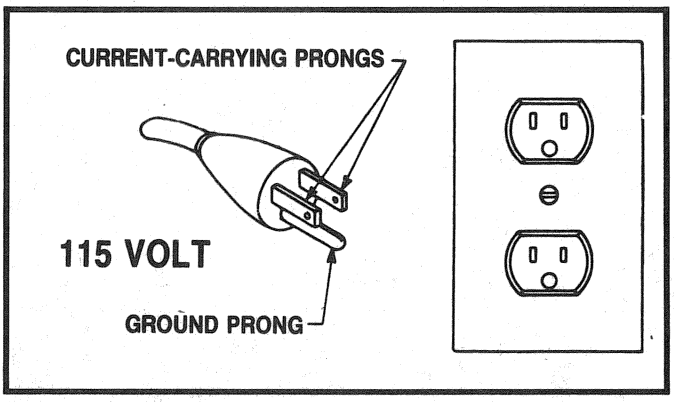



Fig. 5

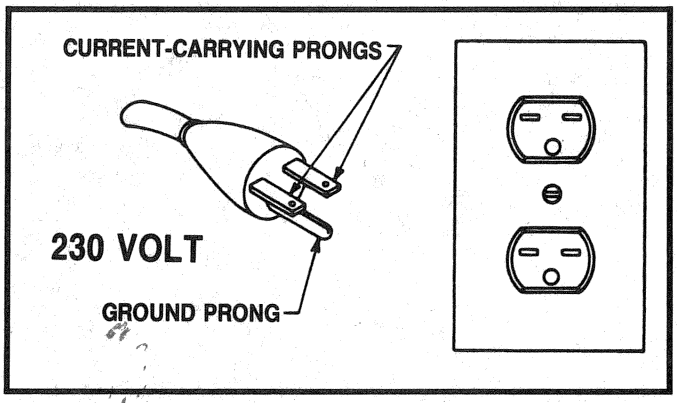



Fig. 6

## THREE PHASE OPERATION

If your dust collector is equipped with a three phase motor, the necessary wiring from the motor to the power source should be completed by a competent electrician. ELECTRICAL WIRING must be made in accordance with the local and national electrical codes, safety standards and in accordance with the motor nameplate. After connecting to power source, make certain the rotation of the motor is in the proper direction by viewing the rotation of the cooling fan on top of the motor. The cooling fan should rotate clockwise (in the same direction as the outlet of the blower casing). CAUTION: do not insert fingers or any foreign object into the cooling fan cover. Rotation of the motor can be reversed by interchanging any two of the three power lead connections to the motor lead wires.

# MAINTENANCE

NOTE: Before any maintenance or service is performed, be sure that unit is disconnected from power source to prevent accidental starting.

CAST ALUMINUM & SHEET METAL FITTINGS:

The cast aluminum blower impeller, as well as all sheet metal fittings are maintenance free and should not require any maintenance during the life of the unit. In a severe dirty operation, the blower impeller should be cleaned with a wire brush to prevent an accumulation of foreign matter that could result in blower unbalance

After cleaning impeller, inspect for possible cracks or excessive wear, which can cause unbalance.

DO NOT USE AN IMPELLER THAT IS CRACKED OR EXCESSIVELY WORN; REPLACE IT WITH A NEW IMPELLER.

MOTOR MAINTENANCE:

Removing dust and dirt: Blow off motor with low pressure air to remove dust or dirt. Air pressure above 50 P.S.I. should not be used as high pressure may damage insulation and blow dirt under loosened tape. The operator performing this cleaning function should always wear eye protective goggles. Dust can cause excessive insulation temperatures.

# SAFETY FEATURE

All Dust Collectors have a safety guard at the discharge of the blower housing. This guard is for your safety. Do not remove this guard for any reason. DISCONNECT ALL UNITS FROM POWER SOURCE BEFORE ATTEMPTING ANY MAINTENANCE.

# TROUBLE SHOOTING GUIDE

**WARNING: DISCONNECT UNIT FROM POWER BEFORE TROUBLE SHOOTING**

| TROUBLE!! | WHAT'S WRONG? | WHAT TO DO . . . |
|---|---|---|
| Unit will not operate. | 1. Improper electrical connection. | 1. Turn power off - assure unit is wired per instructions. |
| | 2. Blower wheel loose. | 2. Disconnect power cord. Turn unit over & spin wheel by hand. Re-position and tighten set screws if necessary. |
| Low suction or flow rate. | 1. Incorrect rotation. | 1. Turn unit off and observe motor cooling wheel rotation as it stops. Rewire correctly if necessary. |
| | 2. Suction hose too long. | 2. Place unit closer to dust source & shorten hose. |

# CENTRAL DUST COLLECTION SYSTEMS

The model 50-181 2 H.P. dust collector is widely used to power small central dust collection systems. Model 50-182 may be used if three phase power is available. NOTE: Model 50-180 should not be used for multi-unit central system hook-ups.

The following steps will assist in designing and building a convenient space-saving central collection system.

# DESIGN STEPS

## (Applicable ONLY to Delta Two Stage Collectors)

**1.** Determine the **Equivalent** Length for **each** duct run. A "run" is the duct going directly from each tool to the collector; several different runs may use parts of the same branch and main ducts. Equivalent length is determined as follows:

Smooth wall pipe (metal or plastic) - actual length

Wire reinforced flexible hose - 150% actual length

Direction change equivalent lengths:

- Curved 90° Elbow (include hose bends) = 10 feet (45° = 5 feet)
- Sharp 90° Bend (Tee joint or Elbow) = 20 feet
- Special Y Branch Tee (including required 45° Elbow) = 10 feet

Add together the component equivalent lengths for **each** run to obtain its total equivalent length. (Do not be concerned with the total length of the entire duct system.)

**2.** Determine Air Flow; (use only 4" or 5" pipe for duct.) The maximum allowable equivalent length of either size duct in **each** duct run is **100 feet; 120 feet with Model 50-182*.** Use the same diameter duct throughout the system.

Air flow at any duct length can be calculated from this table:

| Dust Collector Model | Duct Size | Max. Length | Air Flow At Max. Length | Increase Per Foot Under Max. Length | Max. Air Flow |
|---|---|---|---|---|---|
| 50-181 | 4" | 100 FT. | 310 CFM | 2.6 CFM | 570 CFM |
| | 5" | 100 FT. | 470 CFM | 2.2 CFM | 690 CFM |
| 50-182 | 4" | 120 FT. | 310 CFM | 2.6 CFM | 615 CFM |
| | 5" | 120 FT. | 470 CFM | 2.2 CFM | 735 CFM |

Example: 70' Equivalent length, 5" duct, Model 50-181.
CFM = 470 + (2.2 x 30) = 470 + 66 = 536 CFM

*DO NOT EXCEED MAXIMUM DUCT LENGTH **IN ANY INDIVIDUAL DUCT RUN** AS THIS WILL CAUSE CHIPS TO FALL OUT OF THE AIRSTREAM AND CLOG THE DUCT.

### 3. DUCT PIPE SELECTION

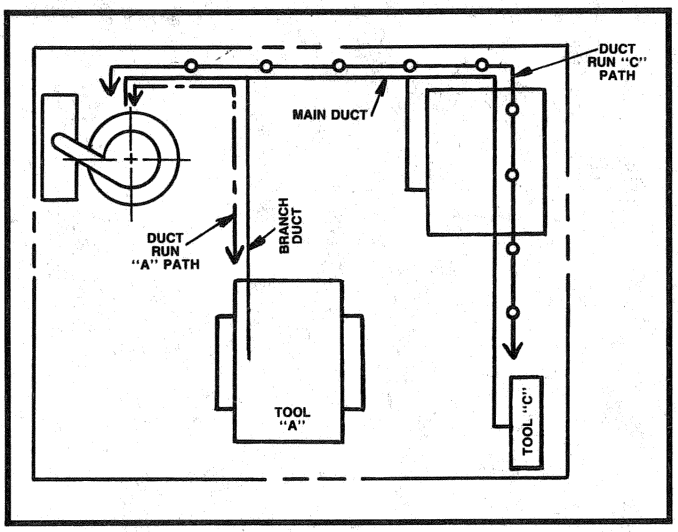
Air flow of 350-550 CFM provides the best dust collection at any woodworking tool. Five inch duct is optimum, and is available in metal furnace pipe. Plastic pipe is easier to install, but is available only in 4" diameter and **MUST BE ASSEMBLED WITH AN INTERNAL GROUND WIRE** to conduct away potentially explosive static charges. Metal pipe must be sealed with silicone sealant at all joints.

### 4. TOOL AIR INLET LIMITATIONS

Branch ducts can be attached to one main duct and run to many different tools. However, air must flow at only one tool at a time to ensure adequate dust collection. Additional tool inlets must be plugged or slide gates installed to limit the air flow to only one tool. (Do not use a damper to close off a duct.) There is no limit to the number of branch runs in a system as long as each run does not exceed the maximum length, and air flow is limited to one tool at a time.

Built-in (on tools) dust collection hoods (or other inlets) which have an inlet opening of less than 4", will restrict air flow and cause chips to drop out in the duct. This will not be a problem, however, if another full size inlet in the **same** duct run is opened periodically to provide a blast of air to flush out the duct. Be sure the second inlet (which may be a full size inlet at another tool) is located farther away from the collector than the undersize inlet.

Shop Duct Layout

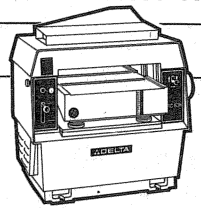


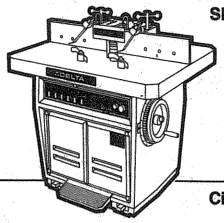

NOTE: For additional information on how to plan your system, send $2 for Delta Bulletin "Central Dust Collection Systems" to Delta International, 246 Alpha Drive, Pittsburgh, PA 15238.

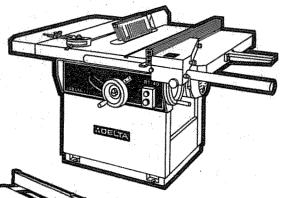
# Dust Collection Adaption for Delta Machinery

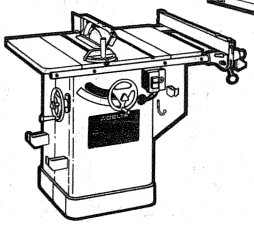
The chart below lists the catalog numbers of the various connectors, adapters and other accessories required for hook-up of the recommended Delta Dust Collector to various Delta Machines in either a fixed or quick-disconnect installation.

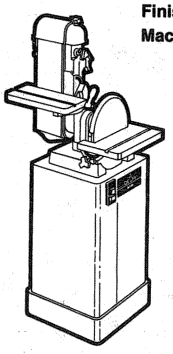
For detailed descriptions of the various items refer to the Dust Collector Accessories, Attachments and Connectors.

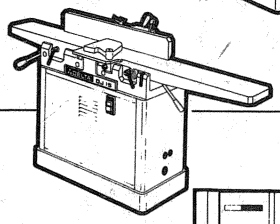


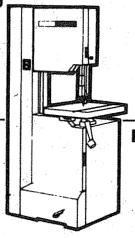


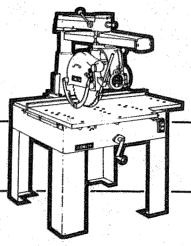












| Machine | Model No. | Outlet O.D. | Type of Installation | Recommended Dust Collector | |
|---|---|---|---|---|---|
| | | | | 50-180 | 50-181 or 50-182 |
| Planers | RC-63 and RC-51 | 6″ | Fixed | — | None Required |
| | | | Quick Disconnect | — | 50-218 & 50-232 |
| | DC-33 | 4⅞″ | Fixed | 22-658 | 22-658, 50-231 & 50-219 |
| | | | Quick Disconnect | 22-658, 50-231 & 50-226 | 22-658, 50-231 & 50-232 |
| Shapers | RS-15 | 10¾″ x 4¼″ | Fixed | 50-246 | 50-246 & 50-219 |
| | | | Quick Disconnect | 50-246 & 50-226 | 50-246 & 50-232 |
| | H.D. | 2¾″ | Fixed | 50-234 | 50-234 & 50-219 |
| | | | Quick Disconnect | 50-234 & 50-226 | 50-234 & 50-232 |
| | 43-355 | 5½″ x 4½″ | Fixed | 50-212 | 50-212 & 50-219 |
| | | | Quick Disconnect | 50-212 & 50-226 | 50-212 & 50-232 |
| Circular Saws | DE-40 | 3″ (Guard) 5″ (Cabinet) | Fixed | 50-242 | 50-242 & 50-219 |
| | | | Quick Disconnect | 50-242 & 50-226 | 50-242 & 50-232 |
| | RT-40 and RE-35 | 4″ | Fixed | 50-236 | 50-236 & 50-219 |
| | | | Quick Disconnect | 50-236 & 50-226 | 50-236 & 50-232 |
| | RT-31 | 3″ | Fixed | 50-237 | 50-237 & 50-219 |
| | | | Quick Disconnect | 50-237 & 50-226 | 50-237 & 50-232 |
| | Unisaw Series 2000 | 2″ x 15¾″ | Fixed | 50-243 | 50-243 & 50-219 |
| | | | Quick Disconnect | 50-243 & 50-226 | 50-243 & 50-232 |
| | Unisaw | 3″ x 4⁹⁄₁₆″ | Fixed | 34-843 & 50-222 | 34-843, 50-222 & 50-219 |
| | | | Quick Disconnect | 34-843, 50-222 & 50-226 | 34-843, 50-222 & 50-232 |
| | 10″ T.A. Saw | 4½″ x 15¼″ | Fixed | 50-213 | 50-213 & 50-219 |
| | | | Quick Disconnect | 50-213 & 50-226 | 50-213 & 50-232 |
| | 10″ Contractor's Saw | | Fixed | 50-220 & 50-219 | 50-220 |
| | | | Quick Disconnect | 50-220 & 50-226 | 50-220 & 50-232 |
| Finishing Machines | 6″ Belt | 3¼″ | Fixed | 50-214 | 50-214 & 50-219 |
| | | | Quick Disconnect | 50-214 & 50-226 | 50-214 & 50-232 |
| | 12″ Disc | | Fixed | 50-224 & 50-237 | 50-224, 50-219 & 50-237 |
| | | | Quick Disconnect | 50-224, 50-237 & 50-226 | 50-224, 50-237 & 50-232 |
| | 6″ Belt & 12″ Disc | | Fixed | 50-224, (2) 50-186 & 50-190 | 50-224, (2) 50-186 & 50-189 |
| | | | Quick Disconnect | 50-224, (2) 50-186, 50-228 & 50-226 | 50-224, (2) 50-186, 50-228 & 50-232 |
| | 6″ x 132″ and 4″ x 132″ Edge Sanders | (2) 4″ | Fixed | 50-209 | 50-209 & 50-219 |
| | | | Quick Disconnect | 50-209 & 50-226 | 50-209 & 50-232 |
| | Sanding Center Belt / Disc Sander | 4″ (Both base & accessory tray) | Fixed | 31-289 & 50-209 | 31-289, 50-209 & 50-219 |
| | | | Quick Disconnect | 31-289, 50-209 & 50-226 | 31-289, 50-209 & 50-232 |
| Jointers | RJ-42 | 17¼″ x 8½″ | Fixed | 50-258 | 50-258 & 50-219 |
| | | | Quick Disconnect | 50-258 & 50-226 | 50-258 & 50-232 |
| | DJ-20 | 8¾″ x 6¼″ | Fixed | 50-221 | 50-221 & 50-219 |
| | | | Quick Disconnect | 50-221 & 50-226 | 50-221 & 50-232 |
| | DJ-15 | 6½″ x 6¾″ | Fixed | 50-221 | 50-221 & 50-219 |
| | | | Quick Disconnect | 50-221 & 50-226 | 50-221 & 50-232 |
| Band Saws | 14″ | 1⅜″ | Fixed | 50-239 | 50-239 & 50-219 |
| | | | Quick Disconnect | 50-239 & 50-226 | 50-239 & 50-232 |
| | 20″ | 2⅜″ | Fixed | 50-238 | 50-238 & 50-219 |
| | | | Quick Disconnect | 50-238 & 50-226 | 50-238 & 50-232 |
| Radial Saws | 12″, 14″ 16″ and 18″ | | Fixed | 50-291 | 50-291 & 50-219 |
| | | | Quick Disconnect | 50-291 & 50-226 | 50-291 & 50-232 |

# Delta Dust Collector Accessories & Attachments

**No. 50-183 Collector Drum.** 55-gallon capacity. Fire resistant aluminum foil lined fiber drum. 24″ diameter x 31″ high. 14 lbs.

**No. 50-311 Drum Dolley.** 5-wheel. Accommodates 55-gallon capacity fiber or metal drum. Adds portability to your dust collector system.

**No. 50-225 2′ Diameter x 3′ Dust Bag.** 22 sq. ft. filter area. New 3-dimensional weave for improved dust retention. With drawstring to fit standard 55-gallon drum. For use with No. 50-180 1 HP and 50-181 2 HP Dust Collectors for planer chip pick up. Also No. 50-180 1 HP Unit when major use is fine sanding dust collection.

**No. 50-185 2′ Diameter x 6′ Dust Bag.** 40 sq. ft. filter area. New 3-dimensional weave for improved dust retention. With drawstring to fit standard 55-gallon collector drum. Eyelet at top for overhead suspension. Supplied with 6″ x 60″ hose, sleeve and two clamps. For use with No. 50-182 3 HP Dust Collector. Also No. 50-181 2 HP Unit for fine dust pick up. 10¼ lbs.

**No. 50-195 Side-Hanging Dust Bag.** 19 sq. ft. filter area. New 3-dimensional weave for improved dust retention. Replacement bag for No. 50-180 1 HP and 50-181 2 HP Dust Collectors.

**No. 50-186 3″ Dia. x 60″ Hose.** 1½ lbs.

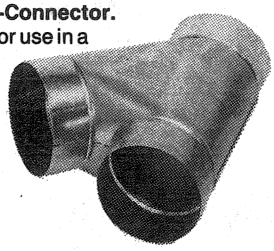
**No. 50-187 5″ Dia. x 60″ Hose.** 2½ lbs.

**No. 50-188 6″ Dia. x 60″ Hose.** 2¾ lbs.

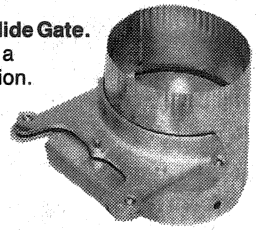
**No. 50-189 Y-Connector.** 6″ x 3″ x 3″. For fixed installation. 2 lbs.

**No. 50-190 Y-Connector.** 5″ x 3″ x 3″. For fixed installation. 1½ lbs.

**No. 50-229 Y-Connector.** 5″ x 5″ x 5″. For use in a fixed 5″ duct installation.

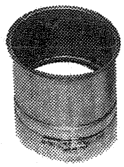


**No. 50-230 Slide Gate.** Fits 5″ duct in a fixed installation.



**No. 50-191 6″ to 5″ Dia. Reducer.** For fixed installation. 1½ lbs.

**No. 50-226 Quick Disconnect.** With clamp for attachment to 5″ dia. hose. A quick change connector or coupling for hook-up of the No. 50-180 1 HP Dust Collector to machinery with 5″ dia. connector outlets.



**No. 50-232 Quick Disconnect.** With clamp for attachment to 6″ dia. hose. Reduces inlet to 5″ dia. For hook-up of the No. 50-181 2 HP or 50-182 3 HP Dust Collector to machinery with 5″ dia. connector outlets.

**No. 50-227 Hose Coupler.** For connecting two lengths of 5″ dia. hose and/or use with Nos. 50-226 or 50-232 Quick Disconnects.



**No. 50-219 5″ to 6″ Dia. Increaser.** With clamping lug on 5″ end. Used in a fixed type installation to attach most woodworking machines to 6″ dia. hose of No. 50-181 1 HP or 50-182 3 HP Dust Collectors.

## Dust Collector Connectors

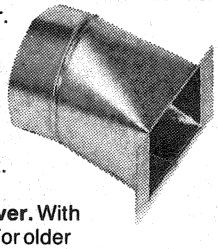
**For Circular Saws**

**No. 50-220 10″ Contractor's Saw Connector.** Including mounting screws. Attaches to underside of saw mounted to No. 50-314 stand. 5″ dia. outlet.

**No. 50-213 10″ Tilting Arbor Saw Connector.** Attaches over opening in side of cabinet under motor cover. 5″ dia. outlet.

**No. 50-243 Unisaw Series 2000 Connector.** Attaches over opening in side of cabinet under accessory motor cover. 5″ dia. outlet.

**No. 50-222 Unisaw Connector.** Attaches over opening in base frame of older Delta Unisaws. 5″ dia. outlet.



**No. 34-843 Motor Cover.** With mounting hardware. For older Delta Unisaws.

**No. 50-237 RT-31 Saw Connector.** 3″ to 5″ dia. increaser with clamping lug on 3″ end. Attaches to dust chute of saw.

**No. 50-236 RE-35 and RT-40 Saw Connector.** 4″ to 5″ dia. increaser with clamping lug on 4″ end. Attaches to dust chute of saw.

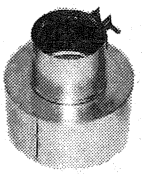
**No. 50-242 DE-40 Connector Kit.** Includes one 5″ dia. x 90″ hose, one 3″ dia. x 144″ hose, 5″ x 5″ x 3″ Y-Connector; clamps and Velcro fasteners. Attaches to dust chute of saw and saw guard.

**For Radial Saws**

**No. 50-291 Radial Saw Connector.** Attaches to base frame of radial saw, left of column. 5″ dia. outlet.

**For Band Saws**

**No. 50-238 20″ Band Saw Connector.** Attaches to 2⅜″ dia. dust spout of band saw increasing outlet to 5″ diameter.

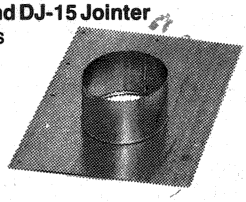


**No. 50-239 14″ Band Saw Connector.** Replaces dust spout on band saw. 5″ dia. outlet.

**For Jointers**

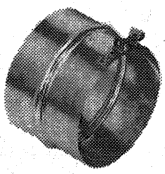
**No. 50-258 RJ-42 Jointer Connector.** Includes mounting screws. Attaches to jointer cabinet covering factory installed chute. 5″ dia. outlet.

**No. 50-221 DJ-20 and DJ-15 Jointer Connector.** Includes mounting screws. Attaches to jointer cabinet covering factory installed chute. 5″ dia. outlet.



**For Planers**

**No. 50-231 DC-33 Planer Connector.** Attaches to 22-658 Shaving Hood. 5″ dia. outlet.



**No. 22-604 24″ Planer Dust Chute.** For old style 22-600 24″ Planer. 5⅞″ dia. outlet.

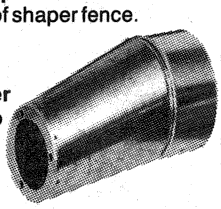
**No. 50-218 RC-63 and RC-51 Planer Connector.** 6″ to 5″ reducer with clamping lug on 6″ end. Attaches to planer shaving hood.



**For Shapers**

**No. 50-212 43-355 Shaper Connector.** Attaches to dust chute of shaper fence. 5″ dia. outlet.

**No. 50-234 H.D. Shaper Connector.** Attaches to fence guard assembly of shaper. 5″ dia. outlet.

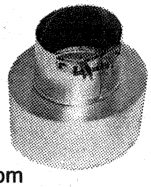


**No. 50-246 RS-15 Shaper Connector Kit.** Includes fence and backside exhaust chute connectors, two 5″ dia. x 14″ hose, clamps and 5″ x 5″ x 5″ Y-Connector.

**For Finishing Machines**

**No. 50-209 6″ x 132″ and 4″ x 132″ Edge Sander Connector Kit.** Includes two 4″ dia. x 60″ hose, 4″ x 4″ x 5″ Y-Connector and clamps. Attaches to outlets in belt guard end caps.

**No. 50-214 6″ Belt Sander Connector.** 3¼″ to 5″ dia. increaser with clamping lug on 3¼″ end. Attaches to exhaust chute of sander.



**No. 50-224 12″ Disc Sander Connector.** Attaches to bottom of sander. 3″ dia. outlet. Requires 50-237 Increaser for hook-up to wood dust collector.

**No. 50-237 3″ to 5″ Dia. Increaser.** With clamping lug on 3″ end. Attaches to 50-224 Connector on 12″ Disc Sander.

**No. 50-228 3″ x 3″ x 5″** Y-Connector. For dual hook-up of Belt and Disc Sander on combination unit. Requires two 50-186 hose, and 50-224 Connector for 12″ Disc Sander.

**No. 50-186 3″ Dia. x 60″ Hose.** Two required for use with 50-228 Y-Connector in dual hook-up of Belt and Disc Sander on combination unit.

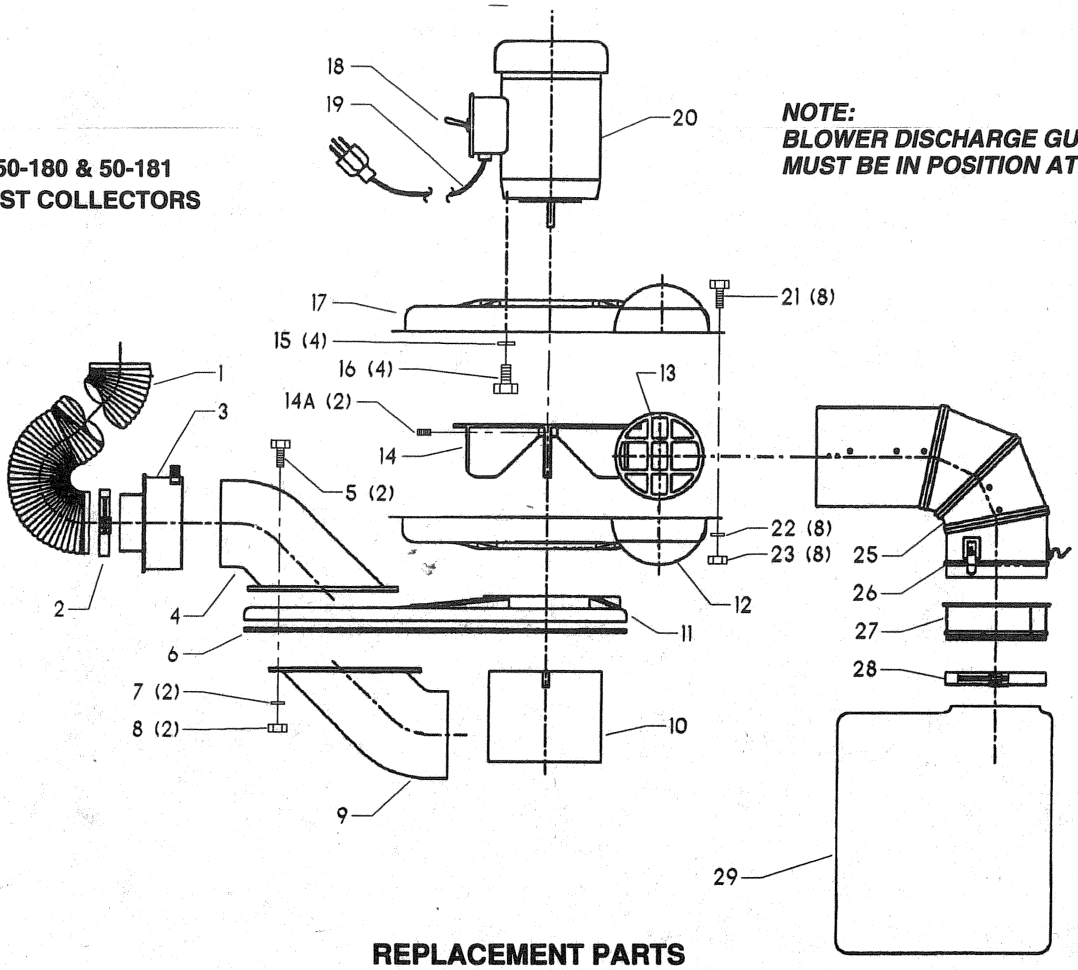
**No. 31-289 Sanding Center / Dust Collector Tray & Connector Kit.** For use with sanding drums at power take-off site of machine. Includes dust chute with 4″ dia. outlet and mounting hardware.

**No. 50-236 4″ to 5″ Increaser.** With clamping lug on 4″ end. Attaches to 4″ outlet of dust chute increasing outlet size to 5″ diameter.

**No. 50-209 Sanding Center / Dual Dust Collector Connector Kit.** Includes two 4″ x 60″ hose, clamps and 4″ x 4″ x 5″ Y-connector with gates. For use when dust collection hook-up to both base machine and accessory 31-289 Collector Tray is desired.

## 50-180 & 50-181
## DUST COLLECTORS

***NOTE:***
***BLOWER DISCHARGE GUARD (REF NO. 13)***
***MUST BE IN POSITION AT ALL TIMES***




## REPLACEMENT PARTS

| REF NO | PART NUMBER | DESCRIPTION |
|---|---|---|
| * | 50-180 | DUST COLLECTOR - 1 HP, CONST OF: |
| 1 | 50-187 | HOSE, INCL: |
| 2 | 410-06-027-0002 | CLAMP - 5" |
| 3 | 50-191 | INLET HOSE REDUCER |
| 4 | 410-06-001-0001 | ELBOW |
| 5 | 901-01-060-0626 | 1/4-20 X 3/4" HEX HD SCREW |
| 6 | 410-06-116-0001 | GASKET |
| 7 | 904-02-020-1702 | 1/4" LOCK WASHER |
| 8 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 9 | 410-06-001-0001 | ELBOW |
| 10 | 410-06-035-0001 | INTAKE CYLINDER |
| 11 | 410-06-031-0003 | LID |
| 12 | 410-06-031-0002 | HOUSING - INLET SIDE |
| 13 | 410-06-054-0001 | DISCHARGE GUARD |
| 14 | 1342482 | FAN |
| 14A | 1346931 | 5/16-18 x 3/8" HEX SOC SET SCREW *(See Service Note A)* |
| 15 | 904-02-020-1704 | 3/8" LOCKWASHER |
| 16 | 901-01-060-3104 | 3/8-16 X 1/2" HEX HD SCREW |
| 17 | 410-06-031-0001 | HOUSING - MOTOR SIDE |
| 18 | 438-01-628-0004 | SWITCH |
| 19 | 49-513 | CORD SET |
| 20 | 438-02-314-1009 | MOTOR - 1 HP |
| 21 | 901-01-060-0626 | 1/4-20 x 3/4" HEX HD SCREW |
| 22 | 904-03-030-1757 | 1/4" EXT TOOTH WASHER |
| 23 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 25 | 1345343 | BAG LATCH ASSY *(Current Models Only, See Service Note B)* |
| 25 | 410-06-001-0004 | BAG ELBOW *(Early Models Only, See Service Note B)* |
| 26 | 1345345 | O RING |
| 27 | 1345346 | LATCH SLEEVE |
| 28 | 410-06-027-0001 | CLAMP - 6" |
| 29 | 50-195 | DUST BAG |

**AVAILABLE AS ACCESSORY**

| | | |
|---|---|---|
| ** | 50-183 | 55 GAL DRUM |
| ** | 50-311 | DRUM DOLLY |

* NOT SHOWN ASSEMBLED
** NOT SHOWN

| REF NO | PART NUMBER | DESCRIPTION |
|---|---|---|
| * | 50-181 | DUST COLLECTOR - 2 HP, CONST OF: |
| 1 | 50-188 | HOSE, INCL: |
| 2 | 410-06-027-0001 | CLAMP - 6" |
| 4 | 410-06-001-0001 | ELBOW |
| 5 | 901-01-060-0626 | 1/4-20 X 3/4" HEX HD SCREW |
| 6 | 410-06-116-0001 | GASKET |
| 7 | 904-02-020-1702 | 1/4" LOCK WASHER |
| 8 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 9 | 410-06-001-0001 | ELBOW |
| 10 | 410-06-035-0001 | INTAKE CYLINDER |
| 11 | 410-06-031-0003 | LID |
| 12 | 410-06-031-0002 | HOUSING - INLET SIDE |
| 13 | 410-06-054-0001 | DISCHARGE GUARD |
| 14 | 410-06-100-0002 | FAN |
| 14A | | HEX SOC SET SCREW |
| 15 | 904-02-020-1704 | 3/8" LOCKWASHER |
| 16 | 901-01-060-3104 | 3/8-16 X 1/2" HEX HD SCREW |
| 17 | 410-06-031-0001 | HOUSING - MOTOR SIDE |
| 18 | 438-01-628-0004 | SWITCH |
| 19 | 49-514 | CORD SET |
| 20 | 438-02-314-1010 | MOTOR - 2 HP |
| 21 | 901-01-060-0626 | 1/4-20 x 3/4" HEX HD SCREW |
| 22 | 904-03-030-1757 | 1/4" EXT TOOTH WASHER |
| 23 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 25 | 1345343 | BAG LATCH ASSY *(Current Models Only, See Service Note B)* |
| 25 | 410-06-001-0004 | BAG ELBOW *(Early Models Only, See Service Note B)* |
| 26 | 1345345 | O RING |
| 27 | 1345346 | LATCH SLEEVE |
| 28 | 410-06-027-0001 | CLAMP - 6" |
| 29 | 50-195 | DUST BAG |

**AVAILABLE AS ACCESSORY**

| | | |
|---|---|---|
| ** | 50-183 | 55 GAL DRUM |
| ** | 50-311 | DRUM DOLLY |

* NOT SHOWN ASSEMBLED
** NOT SHOWN

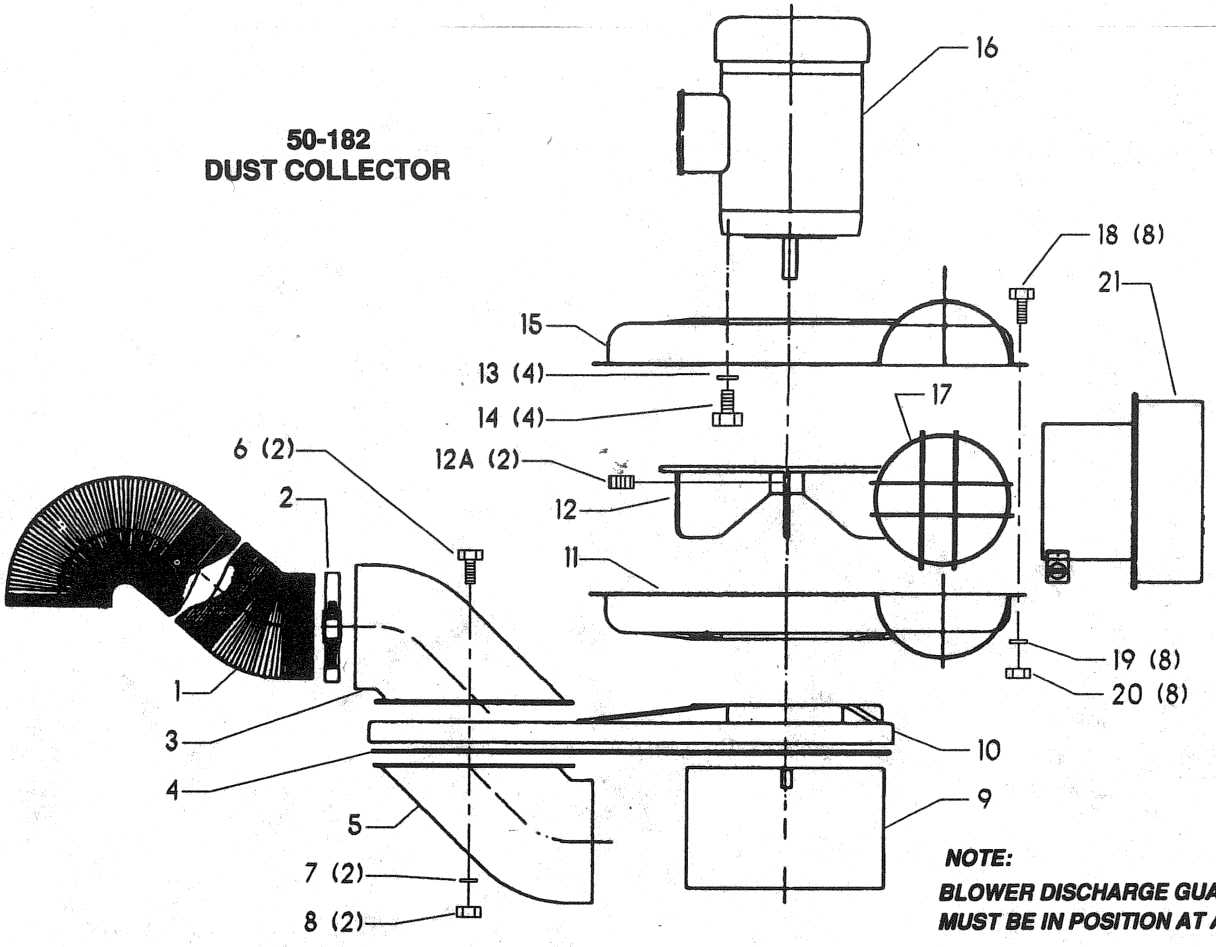
**SERVICE NOTES:**

*A - When screw requires servicing install at 100 inch lbs*

*B- For early model units without bag quick disconnect*

# REPLACEMENT PARTS

**50-182**
**DUST COLLECTOR**




***NOTE:***
***BLOWER DISCHARGE GUARD (REF NO 17) MUST BE IN POSITION AT ALL TIMES***

| REF NO | PART NUMBER | DESCRIPTION |
|---|---|---|
| * | 50-182 | DUST COLLECTOR - 3 HP, CONST OF: |
| 1 | 50-188 | HOSE, INCL; |
| 2 | 410-06-027-0001 | CLAMP - 6" |
| 3 | 410-06-001-0002 | ELBOW *(Early Models, Only, See Service Note C)* |
| 3 | 410-06-001-0001 | ELBOW *(Current Models, Only, See Service Note C)* |
| 4 | 410-06-116-0001 | GASKET |
| 5 | 410-06-001-0003 | ELBOW *(Early Models Only)* |
| 5 | 410-06-001-0001 | ELBOW *(Current Models Only)* |
| 6 | 901-01-060-0626 | 1/4-20 X 3/4" HEX HD SCREW |
| 7 | 904-02-020-1702 | 1/4" LOCK WASHER |
| 8 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 9 | 410-06-035-0001 | INTAKE CYLINDER |
| 10 | 410-06-031-0004 | LID *(Early Models, Only, See Service Note C)* |
| 10 | 410-06-031-0003 | LID *(Current Models, Only, See Service Note C)* |
| 11 | 410-06-031-0005 | HOUSING - INLET SIDE *(Early Models Only, See Service Note C)* |
| 11 | 410-06-031-0002 | HOUSING - INLET SIDE *(Current Models, Only, See Service Note C)* |
| 12 | 410-06-100-0003 | FAN |
| 12A | 1346931 | 5/16-18 X 3/8" HEX SOC SET SCREW *(See Service Note D)* |

| REF NO | PART NUMBER | DESCRIPTION |
|---|---|---|
| 13 | 904-02-020-1704 | 3/8" LOCKWASHER |
| 14 | 901-01-060-3104 | 3/8-16 X 1/2" HEX HD SCREW |
| 15 | 410-06-031-0006 | HOUSING - MOTOR SIDE *(Early Models Only, See Service Note C)* |
| 15 | 410-06-031-0001 | HOUSING - MOTOR SIDE *(Current Models Only, See Service Note C)* |
| 16 | 438-02-314-1011 | MOTOR - 3HP |
| 17 | 410-06-054-0002 | DISCHARGE GUARD *(Early Models, Only, See Service Note C)* |
| 17 | 410-06-054-0001 | DISCHARGE GUAD *(Current Models, Only, See Service Note C)* |
| 18 | 901-01-060-0626 | 1/4-20 x 3/4" HEX HD SCREW |
| 19 | 904-03-030-1757 | 1/4" EXT TOOTH WASHER |
| 20 | 902-01-120-1034 | 1/4-20 HEX NUT |
| 21 | 410-06-001-0005 | INCREASER *(Early Models, Only, See Service Note C)* |
| ** | 50-183 | 55 GAL DRUM |

**AVAILABLE AS ACCESSORY**

| | | |
|---|---|---|
| ** | 50-311 | DRUM DOLLY |

* NOT SHOWN ASSEMBLED
** NOT SHOWN

**SERVICE NOTES:**

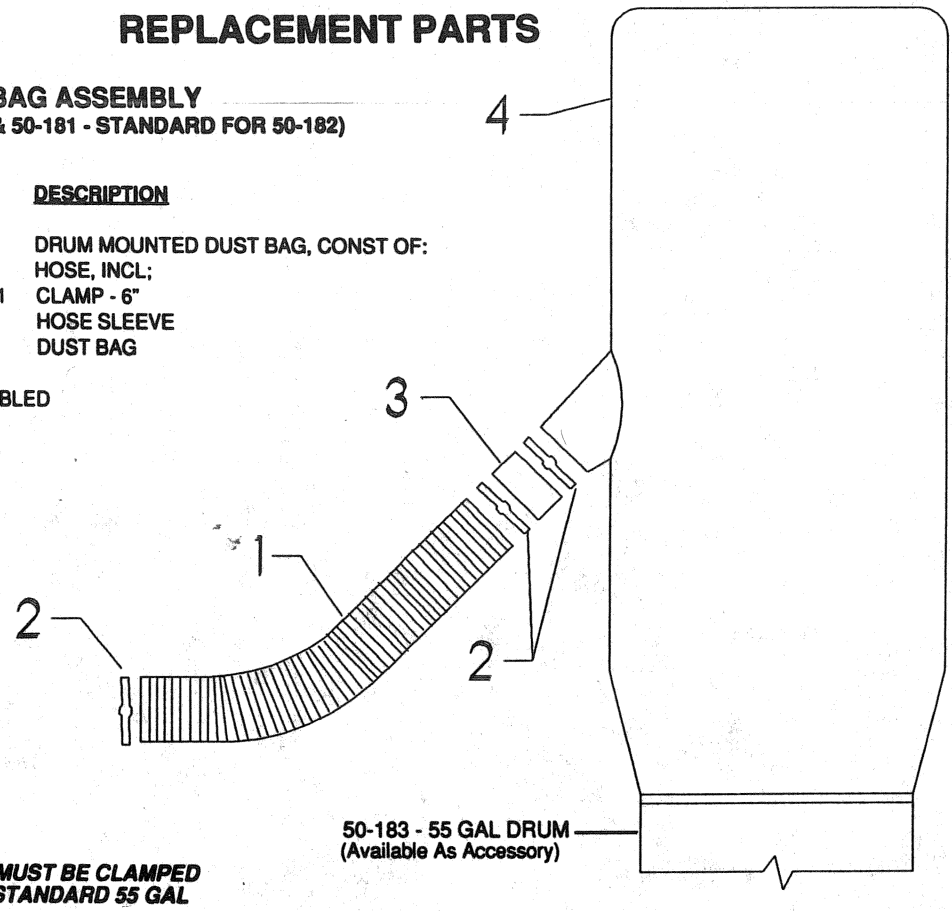
*C - Early models had cast aluminum blower housings. Current models have stamped sheet metal blower housings.*

*D - When screw requires servicing install at 100 inch lbs*

# REPLACEMENT PARTS

## 50-185 BAG ASSEMBLY
(OPTIONAL FOR 50-180 & 50-181 - STANDARD FOR 50-182)

| REF NO | PART NUMBER | DESCRIPTION |
|---|---|---|
| * | 50-185 | DRUM MOUNTED DUST BAG, CONST OF: |
| 1 | 50-188 | HOSE, INCL; |
| 2 | 410-06-027-00001 | CLAMP - 6" |
| 3 | 410-06-105-0001 | HOSE SLEEVE |
| 4 | 50-195 | DUST BAG |
| * | NOT SHOWN ASSEMBLED | |




***NOTE:***
***THE NECK OF THE BAG MUST BE CLAMPED TO THE DRUM USING A STANDARD 55 GAL DRUM LID CLAMP***

DELTA

## Two Year Limited Warranty

## Delta Machinery

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer notifies his supplying distributor of the alleged defect within two years from the date of delivery to him, of the product and provides Delta Machinery with reasonable opportunity to verify the defect by inspection. Delta Machinery may require that electric motors be returned prepaid to the supplying distributor or authorized service center for inspection and repair or replacement. Delta Machinery will not be responsible for any asserted defect which has resulted from misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta Machinery be liable for incidental or consequential damages resulting from defective products. This warranty is Delta Machinery's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

DELTA

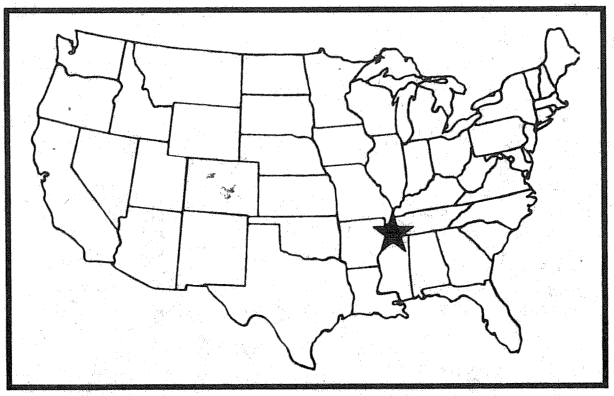
# PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of factory service centers and authorized service stations listed in your owners manual.

To obtain additional information regarding your Delta quality product or to obtain parts, service or warranty assistance, please call or fax Delta's toll-free "hotline" number.

Delta maintains a modern, efficient Parts Distribution Center, maintaining an inventory of over 15,000 parts located in Memphis, Tennessee.

Highly qualified and experienced Customer Service Representatives are standing by to assist you on weekdays from 7:00 A.M. to 5:00 P.M. Memphis time.



**Memphis, TN 38118**
**4290 Raines Road**
**Phone: (901) 363-8800**

**HOTLINE**
**800-223-PART**
**FAX: 800-535-6488**

# FACTORY SERVICE CENTERS

**CALIFORNIA**
City of Industry 91745
Porter-Cable Corporation
1305 John Reed Court
818-333-3566

San Leandro 94577
Porter-Cable Corporation
3039 Teagarden Street
P.O. Box 1913
415-357-9762

**COLORADO**
Denver 80204
Porter-Cable Corporation
2561 West 8th Ave.
303-892-6113

**FLORIDA**
Hialeah 33014
Porter-Cable Corporation
16373-75 NW 57th Ave.
305-624-2523

Tampa 33609
Porter-Cable Corporation
4538 W. Kennedy Blvd.
813-877-9585

**GEORGIA**
Morrow 30260
Porter-Cable Corporation
1286C Citizens Parkway
404-961-0900

**ILLINOIS**
Addison (Chicago) 60101
Porter-Cable Corporation
311 Laura Drive
708-628-6100

**MARYLAND**
Baltimore 21201
Porter-Cable Corporation
7397 Washington Blvd.
Suite #102
301-799-9394
Fax: 301-799-9398

**MASSACHUSETTS**
Franklin 02038
Porter-Cable Corporation
101-E Constitution Blvd.
508-520-8802
Fax: 508-528-8089

**MICHIGAN**
Troy 48083
Porter-Cable Corporation
1355 Combemere
810-597-5000

**MINNESOTA**
Minneapolis 55429
Porter-Cable Corporation
4315 68th Avenue North
612-561-9080

**MISSOURI**
North Kansas City 64116
Porter-Cable Corporation
1141 Swift Avenue
P.O. Box 12393
816-221-2070

St. Louis 63119
Porter-Cable Corporation
7574 Watson Road
314-968-8950

**NEW YORK**
Flushing 11365
Porter-Cable Corporation
175-25 Horace Harding
Expressway
718-225-2040

**NORTH CAROLINA**
Charlotte 28209
Porter-Cable Corporation
4303B South Boulevard
704-525-4410

**OHIO**
Columbus 43214
Porter-Cable Corporation
4560 Indianola Avenue
614-263-0929

Valley View 44125
Porter-Cable Corporation
Sweet Valley Business Park
Unit #18
216-447-9030

**PENNSYLVANIA**
Philadelphia 19154
Porter-Cable Corporation
12285 McNulty Road
215-677-7800
Fax: 215-677-9908

**TEXAS**
Dallas 75220
Porter-Cable Corporation
10720 N. Stemmons Freeway
214-353-2996

Houston 77055
Porter-Cable Corporation
West 10 Business Center
1005 Win Road, Ste 120
713-682-0344

**WASHINGTON**
Renton 98055
Porter-Cable Corporation
268 Southwest 43rd Street
206-251-6680

*11-22-94*
Printed in U.S.A.